

SEQUENCE LISTING

<110> Greenspan, Ralph J.  
Edelman, Gerald M.

<120> Method For Functional Mapping of An  
Alzheimer's Disease Gene Network and For Identifying  
Therapeutic Agents for the Treatment of Alzheimer's Disease

<130> P-NI 4577

<150> US 09/490,243

<151> 2000-01-24

<160> 80

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<212> DNA

<213> Drosophila melanogaster

<400> 1

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tcttctcacc cgacagctgc tttcatctcg tatggtacct tcttctttat ttatgtacat 420
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<213> Drosophila melanogaster

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atttaagcgc aaaagttcaa ttaataaaaa ttagaatttt aatactaaca taatttggac 180
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<211> 367

<212> DNA

<213> Drosophila melanogaster

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atttgatttg ttactaatta ttcatatata gagttgtata tatatgcgta tgtatatata 180  
aatagtccaa attatgttaa tattaaaatt ctaattttta ttaattgaac ttttgcgctt 240  
aaatttagca atttatttgt tatctttttc taagtttatt tttttccttt ttcggttcaca 300  
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<213> *Drosophila melanogaster*

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ccgaatccag naanatatcc ccgtcaanaa aaaaaacata taaaatatga aatgggtacat 180  
aanaaatatg tccantccaa ccaaccaacc aaacaaccaa ccaacaaaca acaannacca 240  
accaacccaa aatcccaaatt aaccgccaac aatccaaaat ggtaactaaa accattggtg 300  
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cngagtttg tatggatagc agaaattacc catattcgtg gactaaagggt ggtgtactga 420  
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<212> DNA  
<213> *Drosophila melanogaster*

<400> 5  
tgtttgtatg tctactccaa aaacaaaaca ataatttata ctgtctgttg ttgtcataac 60  
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aaaaaaaaac atataaaata tgaatgtaca taaaaatatg tccatccaac caaccaacca 180  
aacaaccaac caacaaacaa caaaaccaac caaccacaaa tcccaaaaac cgccaacaat 240  
ccaaaatgta actaaaacca ttgtgaaaac agatacaagc cacttatcct aacaaacgcc 300  
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<211> 188  
<212> DNA  
<213> *Drosophila melanogaster*

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ctggtttatt aaatgttagc taagtttaaa ttatgtattt acagatgctg tgtgctagct 120  
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188

<210> 7

<211> 186

<212> DNA

<213> *Drosophila melanogaster*

<400> 7

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cgaaagtgat aatttgtgtt attttttgtg tatgggattt tgataaatgc cttatgagtt 180
tagaac 186
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<210> 8

<211> 297

<212> DNA

<213> *Drosophila melanogaster*

<400> 8

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gtgtaaccga gttggcggag cgacgcagtg cgatcatacc agcttccaca cagacggctt 180
tgcaactggg gccgttgaag tcacccgtgg atcgggacaa ttctctgaaa ttcacatcat 240
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<212> DNA

<213> *Drosophila melanogaster*

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<223> n = A,T,C or G

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caactcagat cgaaactgaa aaattttaca tttccatggt ttattttaat gtgaagttaa 180
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ccatgatggc gtccatgaat ctctgctgta accgaattgg cggancgacg cagtgcgac 300
ataccacttc cacacaaacg gtttgactg ggcgcgcttg aatcatccgt ggatcgggac 360
atcctcgaaa tcacatcatg ctaactttca tttacgcaat gaattgcata atacggccgg 420
cttccccttg ggatttgaaa ncactctacat ccnangacca acccccaac cgatccaaan 480
tcccgaatgg tcccgaatcca aggnattcn aattccnct gnggccact gcntaaggcc 540
atccccattn atcttaatcc ggcgcnttn ctctnaggaa ccgnttccat atcctgncnn 600
cctccttggt tacaaagccc antcccatn ccnaaggaat gaccttcgct accgggtggt 660
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<210> 10

<211> 479

<212> DNA

<213> *Drosophila melanogaster*

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aactcagatc gaaactgaaa aattttacat ttccatggtt tattttaatg tgaagttaa 180  
ctgcaaattt ctagtctaag cgtagtagtt aagattagcc ttcttcttcg cctgcacttc 240  
catgatggcg tccatgaagt cttcgtgctt aaccgaattg gcggagcgac gcagtgcgat 300  
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ggacaattcc tcgaaattca catcattgct aacgttcatt ttacgcgagt gaatctgcat 420  
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<210> 11

<211> 355

<212> DNA

<213> *Drosophila melanogaster*

<400> 11  
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aaaccatac cgaccggcag gtggtcttcc agaggagacg ataacgacgt agcgtgttcg 120  
aaagggacag tggagtcagt ggtcggcaaa ggtgggtccca ggacgagcgt ttgcctcgc 180  
cgaggacgat acaccctaac ccataacatc ataatcccag ccgggcccgc tcgtcgtccg 240  
tgtcaaggag caagcaggac cacggaggca aggcgttgca ggagaaatgc cgcaggagca 300  
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<210> 12

<211> 171

<212> DNA

<213> *Drosophila melanogaster*

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aatgtaacac cgtctagaca ttgacataat ccctgttcaa tatcacgcaa ttttaaacca 120  
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<210> 13

<211> 170

<212> DNA

<213> *Drosophila melanogaster*

<400> 13  
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<210> 14

<211> 162

<212> DNA

<213> *Drosophila melanogaster*

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aatgtaacac gtctagacat tgacataaat ccctgttcaa tatcacgcaa ttttaaacca 120  
tccaacggca gcataaattt cttctccttc tcctcctcgt cc 162

<210> 15  
<211> 249  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 15  
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ttttdttttca gataaaagga maaagaagga aaaatttaaa gaaaggatat ggaaaaatga 180  
gagaagaaat tatagagaaa ataatgcatg attgagaatg aagtaagaat tgagaggaat 240  
waaattaag 249

<210> 16  
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<212> DNA  
<213> *Drosophila melanogaster*

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<222> (1)...(709)  
<223> n = A,T,C or G

<400> 16  
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ctananggcc aattccccta tagtgatcta ttacaatcct ggcgtcttta cactctgann 420  
ggaaaccggc ntaccaatta tcnctgacca tcccttcnca cngnttnaac aaagccnga 480  
cccccanttg ccccgaaagga aggaccctgt acgcctacc gnggtgngtn cccntactac 540  
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cngccancna ntatnggagc cttggcccca aagntccaa tgatctcnaa ngactcnega 660  
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<210> 17  
<211> 468  
<212> DNA  
<213> *Drosophila melanogaster*

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cttaggtacg aattcacgaa gggcggaattc tgcagatctc catcacactg gcggccgctc 360  
gagcatgcat ctgaggggcc caattcgccc tatagttagt cgtattacaa ttcactggcc 420  
gtcgttttac aacgtcgtga ctgggaaaac cctggcggtta cccaactt 468

<210> 18

<211> 416  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 18  
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agacacacac acgcaacaca cacagacaca ttcaacttaa agtgcgtaac ataaagtaaa 180  
ataaataaat gaaaacacat taacacgaac aaaacaataa tcaagaactg gagcggattg 240  
ggtttcggtt tccagcgatt acctggagat caccatggca accagtcaca ctcatattaca 300  
cttggaatgc atgggagttc ttctatcaac taacaaatcc tatttcatat acaacacgtt 360  
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<210> 19  
<211> 286  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 19  
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ctgtaacttg aatgtgggta agtaaagagg tgcatacata tttttttaca cgcgtatata 120  
gtttgcgttt ttgcgtttcc acacaagata cgtacttcgt agccccccctt cccctttcca 180  
aatactgtat cacaaagatc ataactcaaa atgctattgc tttgacttac atcttatttc 240  
ggtgggtgtca actgcgccac catacgaaaa tacataaatt atagcg 286

<210> 20  
<211> 706  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(706)  
<223> n = A,T,C or G

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tccatggtaa caaagcccat ccccaatncc cangangacc ctcgctaccg ggttggtcct 660  
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<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(459)  
<223> n = A,T,C or G

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gtttgtggct tgccctttgc gaattacaat atggaaacga tacagaacag aaaatagttt 180  
aacaataata ttgctggaat aaacacatcc aaggtaatac tcagacanca cgctgctatc 240  
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gattcggggg atgatcacat gctcaatggc gttttggta 459

<210> 22  
<211> 483  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 22  
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caa 483

<210> 23  
<211> 514  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(514)  
<223> n = A,T,C or G

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aatacggctg ctgttgctgc tgctgactac tgaracatat ttaatttata tttcttgag 180  
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gttgccgatg gatccaactc ccagataag cagatttatg acctaaacac cgaaactcca 420  
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gcnattctc accgcgggcg cycaacatct ctaa 514

<210> 24  
<211> 430  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(430)  
<223> n = A,T,C or G

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aatacggctg ctgttgctgc tgetgactac tgaacatat tttaatttat atttcttgga 180  
gtgtgtgcgg cttgtcaatg gctgggaatc taagaaattt atgcatgact gcaacagggt 240  
caagttgcaa agcccttagc ctttaatgcc atccagctgc cgggaaagcc gggaaagctg 300  
agaaaacaaa actgactcgt actgaagctg aaactgaaag aacttttagt cctattccrg 360  
gggttncgga tggatccaac yccccagata agcagattta tgacctaaac accgaaactc 420  
aaataactgg 430

<210> 25  
<211> 213  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 25  
aacatttttag attgaaacac attccaaaag tctaagactc tagcttcaca acggtcgtct 60  
tctcggacac gtacagbbcg tcaaggaact tacggatatc cttgttcttg acgstcgtgg 120  
actgctggat gagggcggca gatccggaga cagactcaat atcgttccgt amscgtaagg 180  
tyggccctct ggavagtgag gtcaccacc gcg 213

<210> 26  
<211> 365  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 26  
aacatttttag attgaaacac attccaaaag tctaagactc tagcttcaca acggtcgtct 60  
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actgctggat gagggcggca gatccggaga cagactcaat atcgtttccc tccacgataa 180  
gttcgtcctt ctgggcagtg gagttgacca cggtgacgcc aggagccatc tccacacgac 240  
ggatgtactt ctcacccaag aagttacgga tctcaatgac cgtgttggtc tgggaggtga 300  
cacagttgat ggggaaatgg gcgtacacag cagcatctt gtactggatc cgaattcaca 360  
aaggg 365

<210> 27  
<211> 212  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 27  
acattttaga ttgaaacaca ttccaaaagt ctaagactct agcttcacaa cggtcgtctt 60  
ctcggacacg tacagbbcg caaggaactt acggatatcc ttgttcttga cgstcgtgga 120



ctgctggatg agggcggcag atccggagac agactcaata tcgttccgta mscgtaaggt 180  
yggccctctg gavagtgagg tcacccaccg cg 212

<210> 28

<211> 691

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(691)

<223> n = A,T,C or G

<400> 28

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gtttgtggct tgccctttgc gaattacaat atggaaacgg atacagaaca gaaaatagtt 180  
taacaataat attgctggaa taaacacatc caaggaata ctcagacagc actcgtcatc 240  
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accctcccn caactctcca ctccaaatga tttnggcaat tcnatcaatc cggganaatc 420  
catgcccatt gcttngtat tccctccct tggcactncn aacccccggn taaacgcatt 480  
cctgtgttca ttcaatccaa ggnaatccgc attctcctg nggcctcact ctctaaggcc 540  
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<210> 29

<211> 677

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(677)

<223> n = A,T,C or G

<400> 29

cgggcataaa gtaggtggga aggtaaggaa ggtactaagc gcactccaaa tctgtttggt 60  
aaacattgta nacnaagcat gtggaattaa agccaaacac nattttntg ccnatactct 120  
tgccagaga ttgtcaaggc cgtgcatctt acgcgagtaa atcaaggaaa atgtgagcan 180  
gttaaagaaa atttctacct actaaaaaca atattaatgc atctccaat attagtttct 240  
tcctacagga tggtagatgg ttttggaat gtatctttt atgtacctgc tctttggtgt 300  
canatccnaa tcncgaaggc caattctgca aatatccaca cctggcggc cgctcgaaca 360  
tcntctaaan ggccaatccn ccnattatga atcctatana atcnctggcc gtcttttaca 420  
ctctganggg aaaccngcn ttncactaa cctgcacct ccctccnct gnttatataa 480  
aagcncatc cctccacatt gcccctaagn atgacctt cgcctanccg gggntgttct 540  
cntactcttc nntaccccc tcttctctt cnttcggtc cnactaaggc cctggcattt 600  
tgcccccaat aaggngnctt gccnaagtc ccaatgtctc nangactccg aacccnccc 660  
ctaaaggacn cctgaaa 677

<210> 30

<211> 141

<212> DNA

<213> Drosophila melanogaster

<400> 30

```
atgatataat ggattggttaa tcaattggca tcgaaattaa tttacgatat aaacaccact 60
taacgccgcc tcaacctaata tactgtctgc atatgcaata gaaaacgtat ataaattaat 120
taaataaaaa aaaaggaaag t                                     141
```

<210> 31

<211> 322

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(322)

<223> n = A,T,C or G

<400> 31

```
atttcgcgac aggttcggc acgccagtat ataacccaaa acacacnaac ntcaggggct 60
ggancgcgtc actgccgtgc tcttcagcc gccacagtca ttccccgcc ccacaccaan 120
caaaaccggc cgtttgtgca natgacatag gcgcgaccan ccaactgacc cggctgacca 180
gacttgacac gtgcgccatc aactggaatc ttggccacaa gcacagcttt agtttgcccc 240
gctatcccnc acacaaaccc agantggggg tctatggaag accacaagtn gttgcgttgg 300
aactgctaaa natttnnact gt                                     322
```

<210> 32

<211> 308

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(308)

<223> n = A,T,C or G

<400> 32

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgtg tatttgaacc acgtacttat tatttacatg 120
tttacatata cgaacatcca aagcaaaggc atatacacgt ataggactca acatttaca 180
attcaatatt cttatatgtg gaaagcanag cgttacgatt atctcccanc taactggaag 240
cgattgaatg tctatacatn atttgtaatg ccaaataaaa taaaatatat cacgttatat 300
taaacagt                                     308
```

<210> 33

<211> 201

<212> DNA

<213> Drosophila melanogaster

<400> 33

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgtg tatttgaacc acgtacttat atatttacat 120
gtttacatat acgaacatcc aaagcaaagg tatatacacg tataggactc aacatttaca 180
```

aattcaatat tcttatatgt g

201

<210> 34

<211> 187

<212> DNA

<213> Drosophila melanogaster

<400> 34

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgcg tatttgaacc acgtacttat atattttacat 120
gtttacatat acgaacatcc aaagcaaagg tatatacacg tataggactc aacatttaca 180
aattcat 187
```

<210> 35

<211> 687

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(687)

<223> n = A,T,C or G

<400> 35

```
agaattacca cgcgaacaca attctgtttt attgttttta atacatatatt aatcttttgcg 60
anaagagcta gtgtaggttag tctggaattt ttcatatatt taacgatata cattggtaat 120
gattacatag ttggattaga actaataact gtagcagtta atggaatggt caccaccgct 180
ctggatcatc gttgctggtc agctggcaag gcatcatcac gcacttttcc atgcggacgc 240
nattccttgca cttgtggctc aatcgggtgt cattaagggt cgggttcggt ggcgaacggc 300
attatcgcca cagtttgcgg tgcattggtg ccaagcggaa cactcccaat tancnacact 360
cgtcctgcgg tccggttgcg gactcttacc acatccttcc tctccaatcc ccgctccctga 420
ttgattacnn tcattccacc ctggtaacac nattccaact tccagttgct tggaaatgct 480
gcnccctact ccgaatacga cncctccctc ccatgaaccn ccccagagct tgcacgtgga 540
ccttcatcat ccaagnaatc tgcattctcc cgcggncac tcttaagcca tccccaatat 600
cttaatccgc ccttaatcta tgaaacgntt ccatacctgn canctccct ggtaaaaanc 660
ccatctccct tncnangan gaccctc 687
```

<210> 36

<211> 311

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc\_feature

<222> (1)...(311)

<223> n = A,T,C or G

<400> 36

```
tcccatcaat tcgttactca tcaattgaaa tttcagattt ggtaatgcta aagggctatc 60
atgattgcag ttctatgaag tggatcaaag cgatttcggg tcaaagattg cgggtgcgtg 120
ctagaaagat tgatctctag tgcttctcca gtgcttgctt agttcggcga gggcataacc 180
ttgatgcgt ccaaggcttg tttctccang gtctcgcggt gcttgggata ggcgatctgg 240
ataagtctgt acatcctctg gcgcacattc ttgcgaaca gcgaagcgat tccatgctcc 300
```

gtgacgactt a

311

<210> 37  
<211> 670  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(670)  
<223> n = A,T,C or G

<400> 37  
cccatcaatt cgttactcat caattgaaat ttcagatttg gtaatgctaa agggctatca 60  
tgattgcagt tctatgaagt ggatcaaagc gatttcgggt caaanattgc gggtcgctgc 120  
tagtaaaata gtgatctcta gtgcttcttc agtgcttgct tagttcggcg agggcataac 180  
cttgatgcgc tcgaagcttg tttctccagg gtctcgcggt gcttgggata ggcgatctgg 240  
ataagttcgt acatcctctg gngcacattc ttgccaaca ogaagcgatt ccntgctccg 300  
tgacnaacta ntggacttng gcacgcgaan ttgacaacc agcgctgcc ttcacgttng 360  
gaacaatctt gctctcccc tgttggtggt caatgcattg cnataattgc acacccatcc 420  
atcnaaacct ccncgtcccc naatnaattc acctntcccc naaccgggat taaanccgga 480  
acatcatcta cncctgtcnt ccattccaat ccaagggaat cttnattcac cngcgggcnc 540  
caacatctcn aaggccatcc caatatnttt anattcgggt cttaactcta tggaaacnct 600  
tncataacct gantccttcc ctgtttcaag cncatcccc ncttcccaag ataccctcgc 660  
taacgggtng 670

<210> 38  
<211> 192  
<212> DNA  
<213> Drosophila melanogaster

<400> 38  
accatttaatt tattaaatat gattttattta tattaatatg tagtcaaaaa ctccgtgtta 60  
gctttaattt acctacccca ctttgatct aaataaatat gttaaattgt gattcaagcg 120  
tgataattta tttggaacag cattgcgaaa attgrgtagt ycataatgtt ttttcttct 180  
ggkactgag ca 192

<210> 39  
<211> 362  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(362)  
<223> n = A,T,C or G

<400> 39  
gctgaactgg acctgaatat aaacntatac acatctattg caacaangat acacaccttg 60  
ctgttaacca cctgcaacat ccaancttct tacatccctg gtgttagttc gacanactct 120  
acatttcccc acctctgcgc antgetgana gttaantcat gggaacagga natnccnctt 180  
ccccaaagg aatattttnt gttnaaataa atactgcctc ttgcngttca acgtananan 240  
anaaataccn aattccgaaa ggggcnaaan ttncgggcn canannggcc tgctctntag 300

ggaatcncca nccccctntt atangccctc ttccgcctat aaacttgtgc cngaancccc 360  
ng 362

<210> 40  
<211> 322  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)... (322)  
<223> n = A,T,C or G

<400> 40  
atttcncgac aggttcggc acgccagtat ataaccctaaa acacacaaac gtcaggggct 60  
ggaacgcgtc actgccgtgc tctccagcc ggcacagtca ttccccgccc ccacaccaag 120  
caaaaccggc cgcttgtgca gatgacatag gcgcgaccag ccaactgacc cggctgacca 180  
nacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttggccc 240  
gctatcccca cacanaaacc cacantgggg gtctatggaa gaacacaagt ggttgcggtg 300  
aactgctaaa aatataaaac tg 322

<210> 41  
<211> 323  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)... (323)  
<223> n = A,T,C or G

<400> 41  
atttcgcgac aggttcggc acgccagtat ataaccctana acacacaaac ntcaggggct 60  
ggaacgcgtc actgccgtgc tctccagcc ggcacagtca ttccccgccc ccacaccaag 120  
caaaaccggc cgcttgtgca gatgacatag gcgcgaccag ccaactgacc cggctgacca 180  
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttggccc 240  
gctatcccca cacagaaacc cagantgggg gtctatggaa gacnacaagt ggttgcggtg 300  
aactgctaaa aatataaaac tgt 323

<210> 42  
<211> 176  
<212> DNA  
<213> Drosophila melanogaster

<400> 42  
caagtgcggc ggcgacaaga aatccgcctg cggctgctcc aagtgagctt tcccccaaaa 60  
aagatctgga gtagaggcgc tgcattctgt ctccgaactg atttctgtat aactcccaat 120  
actaaaacga catgttttct catttacaca ccttgcaata aatgtccaat taaagt 176

<210> 43  
<211> 323  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(323)  
<223> n = A,T,C or G

<400> 43  
atttcgcgac aggcttcggc acgccagtat ataaccctaaa acacacaaaac gtcaggggct 60  
ggaacgcgtc actgccgtgc tctccagcc ggcacagtca tccccgccc ccacaccaag 120  
caaaaccggc cgcttggtgca gatgacatag gcgcgaccag ccaactgacc cggctgacca 180  
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttgggcc 240  
gctatcccca cacagaaacc cacantgggg gcctatggaa gaccacaagt ggttgcgtag 300  
aactgctaaa aatataaaac tgc 323

<210> 44  
<211> 176  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 44  
caagtgcggc ggcgacaaga aatccgcctg cggtgctcc aagtgcgctt tcccccaaaa 60  
aagatctgga gtagaggcgc tgcattctgt ctccgaactg atttctgtat aactcccaat 120  
actaaaacga catgttttct catttacaca cctgcaataaat atgtccaat taaagt 176

<210> 45  
<211> 323  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(323)  
<223> n = A,T,C or G

<400> 45  
atttcgcgac aggcttcggc acgccantat atanccctaaa acacacaaaac gtcaggggct 60  
ggaacgcgtc actgccgtnc tctccancc ggcacngtcn tccccgccc ccacaccaag 120  
canaaccggc cgcttggtgca atgacataag gcgcgaccanc caactgaccg ggctgaccag 180  
acttgaccgc tgcgccatca actggaatct tggccacaag cacagcanta gtttgggccc 240  
ctatccccac acatanaacc cagattgggg gvvatatngaa naacacaagt ggttgcgtag 300  
aactgctaaa natatnaaac tgc 323

<210> 46  
<211> 362  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(362)  
<223> n = A,T,C or G

<400> 46

```
gctgaactgg acctgaatat aaacntatac acatctattg caacaangat acacaccttg 60
ctgttaacca cctgcaacat ccaancttct tacatccctg gtgttagttc gacanactct 120
acatttcccc acctctgccg antgctgana gttaantcat gggaacagga natnccnctt 180
cccccagggg aatattttnt gttnaaataa atactgcctc ttgcngttca acgtananan 240
anaaataccn aattccgaaa ggggccnaa ttnccgggcn canannggcc tgcctcntag 300
ggaatcncca ncccttntt atangccctc ttcgcctat aaacttgtag cngaancccc 360
ng
```

<210> 47

<211> 416

<212> DNA

<213> *Drosophila melanogaster*

<400> 47

```
agtttacatg tactttatct gttttgtata tcccagacag atagagttat ttattgaaca 60
cttcaactgg ctaggtcgta ttagggctctg cttgtaactt ttgtgtcagt aaccactcta 120
aaatagtata atgctagtaa ttctacccat caaccattg tatacatact tatattcaaa 180
accctttcac cacatttcta agcctagatt atggataatg cctctaata gtaacgagtg 240
cttaggtcac cttagccagc cgctggtcga tgcatttctg gctgcgaagg tcgaaccaat 300
ttcccggaact gcagtaatgc aaaaccgctt ttcccttcaa gcaaacataa tacttggtat 360
gctgcttgac gtctccaaat cgtgtatcct ctttcaactt ggtgcaatcg ggtacc 416
```

<210> 48

<211> 413

<212> DNA

<213> *Drosophila melanogaster*

<400> 48

```
caaatagttt acatgtactt tattegtttt gtatatccca gacagataga gttatttatt 60
gaacacttca actggctagg tcgtattaga gtctgcttgt aacttttggtg tcagtaacca 120
ctctaaaata gtataatgct agtaattcta cccatcaacc cattgtatac atacttatat 180
tcaaaaccct ttcaccacat ttctaagcct agattatgga taatgcctct aatatgtaac 240
gagtgttag gtcaccttag ccagccgctg gtcaatgcat ttctggctgc gaaggctgaa 300
ccaatttccc ggactgcagt aatgcaaaac cgcttttccc ttcaagcaaa cataatactt 360
gttatgctgc ttgacgtctc caaatcgtgt atcctctttc actttggtgc aat 413
```

<210> 49

<211> 885

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1)...(885)

<223> n = A,T,C or G

<400> 49

```
rtstartmn ctmrtnsttt ctamcmntd skasamdsdy strmrtdaca stanyrma 60
chndsnnnng nagatacgcc aagctattta ggtgacacta tagaatactc aagctatgca 120
tcaagcttgg taccgagctc ggatccacta gtaacggcgc ccagtgtgct ggaattcgcc 180
cttcgtgaat tcggatctga ctgcaagtgc ggcggcgaca agaaatccgc ctgcggctgc 240
tccaagttag ctttccccca aaaaagatct ggagtagagg cgctgcatct tgtctccgaa 300
ctgatttctg tataactccc aataactaaa cgacatgttt tctcatttac acaccctgca 360
```

```

ataaatgtcc aattaaagta aaaaaaaaca aaaaaaaaaa accgaattcc gaagggcgaa 420
ttctgcagat atccatcaca ctggggggccg ctcgagcatg catctagaag gcccaattcg 480
ccctatagtg attcgtatta caattcactg gccgtcggtt tacaacgtcg tgactgggaa 540
aacctggggtt tacccaactt aatcgccctg cacacatccc ctttcgccag ctggcntnta 600
caaaaaggcc cncgattgcc ttcccacant gccacctgaa tgggaatgaa cccccgtac 660
cggccttaac cngnggttggg ggttaccac ntacgcaacn tgcacccta cccncttcc 720
ttttcctctt cccnttccgg ttccctcacc tantggggcc taggtcaatt tcttnngcca 780
ccaaatntag tangtctttg cccccaaaag ttccctaatt gatcttctaa atganntcnn 840
gaaaccncac cgtntttant aaggatgcat cgcnnngtaa catcc 885

```

<210> 50

<211> 496

<212> DNA

<213> *Drosophila melanogaster*

<400> 50

```

cttgatccag caatctattt ttcaaaaacy ccaatgtcaa attttcttca gataatgtct 60
ctatcgctgt aataattcca tcgtaacacg aaggcaatgt gatcagtaga tgagaaatct 120
tatccatctc ttctatTTTT gcaccagctg ccaacaattc acttataagt tcgtcaaaaa 180
tatgaaaatg gcttaatagt gacatctcac tcgatatgctt cagagaaaagc aaacgttttc 240
gcagcgccag ttgcgacgcc aaactttttc gttcataaac ggcgtccaaa ttctcaagaa 300
tctgacgcgc cgtaatgtcg cttgttgcca aatttaaaaa cgagtcgctt aggtacgaat 360
tcacgaagcc gaattctgca gatatccatc acactggcgg ccgctcgagc atgcatctag 420
agggcccaat tcgcccata gtgagtcgta ttacaattca ctggccgctg ttttacaacg 480
tcgtgactgg gaaaac 496

```

<210> 51

<211> 936

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1)...(936)

<223> n = A,T,C or G

<400> 51

```

acatcaatgc tagtgcttcc ttttaccgaa aacctattga atacgctaaa aaattggaat 60
agtcgcaagc ggaagtcggc caaaaaaatc cttagaat ttggaaccag ttcttctact 120
tgtcgatcg aaccagggcg gtgtcgtcgc cgacctctc cagatccttt ggatcgggc 180
ggaagcgata agtgcccaca tcttggttgg ccgattccgg caacgtcacc ttgatgcct 240
tgtactcggc tcgaccttcc ctgacctcgc gcaccgcag ctccatctcg gccttgact 300
cgtcatcggt accaatgtcc acgtcctgga ccgttctttt gcacgggtggg atcctcctcg 360
tcttggttcc agccatcaaa tctcgatggg gacaatgggg ttgccgtcga cgctacgac 420
ggnactangt gcgccantag ggcaggatct ccacgggtaa tctccagaaa atcggaattc 480
tctggctggg ttggcagact caaactgcan tcccgcantc cacnaatgtt tgggtcanct 540
ccntttgaaa tgggaggtat ggggtccatca aggnagcgaa attcacnaaa nggggnaatt 600
ctgcannata tccatcacac tggngggccg ctccaagcaa tgcactctaaa agggccccaa 660
ttcctccta atangngagt ccgtattaca aattcaacng ggccgtcggt ttanaanngt 720
cgggaatggg gaaaaaccn gggngntaan caaacttaat cnccttggg agcanaatcc 780
cccttttcgc aagangggng tatnannaaa nagggcgca acgantgncc cttcccaana 840
antttccnan cctgaatngn gaatggacnc nccctgtnnn ggggcaatna acccgngggg 900
gttgntggta ncncaangt ntacggctaa anttgc 936

```



<210> 52  
<211> 629  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(629)  
<223> n = A,T,C or G

<400> 52  
gtttgcaaac cttectatatt aagtaaagtg tttgactctg gctcccaaag cttnccttgg 60  
gaaacgggaa aaattctcta cantgtatat gtgcgcatgc aaactcattt ggtaaattac 120  
acatnaataa atatgtataa caacaactan acatatgttn atggaaaata aaaattttca 180  
gtaacgactn aactcgantg tcggtagcat naaggganna agtcgtcnan tgttattatc 240  
taatttgcag cctgtattgt ccagatacaa tatgtnatng atgcantgta tatctnttgt 300  
gtacatanat atatgtttta ggcgactcct atttntctgc ntgtgcatat cgatcaaagt 360  
cctaactttn tgattgtttt gtgtgtttcc nctaaggaaa anatacatgt gttatatcny 420  
naaaagaatt gtatcgatatt aggtttgctt cctcaaacat ccaccaaaaa tcgntntcnt 480  
ntanancna aaaatacgaa aatnnttggt ccttaaaaaa aaacaatcga ggnaatccca 540  
antcenaatg cggngtcact cngntaccat atgctcnaa cttccctggg tcaaagccca 600  
tncccaactn cccatganga ccttcgctg 629

<210> 53  
<211> 977  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(977)  
<223> n = A,T,C or G

<400> 53  
cgtttggtgc cgggtattggt gggtggtagg ttgtttgtta gtagagagag agagaaccgg 60  
tacgtataa aactacgctc ccattgccgg attgttattg gagaattgag cccgccaccc 120  
aagcagccac ccacgtatca cccgctcaca agagcggaaa atggatacag tccgggttcc 180  
tggcggtaga accgtaattt ctgtgatttg ctttttttgt gttaagtaag tatttaataa 240  
gtagattact gangtttgct gctccgaggg cgattccctt aggcggccac ttcgctangc 300  
ctcggnccca ttctgaacct catcctttgt gctgggcctc atcaagcanc gaattcacna 360  
agggcgaatt ctgcagatat ccatacact ggcgccgct cgagcatgca tccgagaggg 420  
cccaattccg cccctaatag ntgantccct attacaattc actgggcccgg tcgtttttta 480  
naaccggtcn ntgactgggg aaaaccctgg gcggttnccc aaacttaatt cnccttgcaa 540  
gcacantcnc ccccttcgcc aagctgggng taattancga aaagnaggcc cgcacccgat 600  
nggcccttcc caacnngttg cgcaggccng aaannggccg anatggancg cgcgccggtg 660  
agccgngca attaatccgc ngnggggggt ttggtgnggt taanccgcaa accgtgaccg 720  
gcntatacct tgccaagggc ccctantcga ccngntcnt ttccggcttt cnttncctt 780  
ccttttncn ggcnaaantt cgnnccgggt ttncccggtc aaagctcnta aatnnggggg 840  
gntccctttt agggnttccn natttnaggg gcttnnacg gnaantcca anccccaaa 900  
aancttgctt nnnngtgaan gggtnnacgt tnnnggggca ncnccctna taaagggntt 960  
tnccnctttg nagatgt 977

<210> 54  
<211> 875  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(875)  
<223> n = A,T,C or G

<400> 54  
gcgatcttac aaaataaata acagcaaata gaaagataaa cttacatata agcgcaatat 60  
tcaaagtgtt agtggcgtct acgaaatgtt tttcaattac tgctgggtgta agacacatag 120  
ataataaatg tgatgtgttt tgtgtgtttt tttangtttg gcctaccaga agtgtgctct 180  
aaatatatac caatgtgaat cgaaatcgta gtccttgcg ttctctata tacatgtgca 240  
ccgtgagatc catagtccca tcgttttcgg ttttaagttac ccycgggcy yggcagattc 300  
gnaatcatat gcacgtataa agatagactg cgtgcacagc tccggccctc ctccctgggaa 360  
aacgcatagc cataccgaat tatccgatcc caangcatac atgggtagaa ngatctcggg 420  
tccgttcate aacttcggga natgtcgcn cgntccggtc tccgtttccg cgaacagcct 480  
tccggtcagt gtccctannnc acgggtatta aggtaccaag tttgcaagat cacatcgatc 540  
agcagcgtgg gtaaagtngg gcaccagcag tcaaggcang cgaattccac cnaangggcg 600  
aaattccggc aagaataatc catcacactg gggggccggc tgaagcatg caatcctaga 660  
aggggcccaa aattccgccc natattgagg tccatattan aaaagttcaa tgggccgtcc 720  
gntttannaa acgttcntga ntgggaaaaa nccnngcgt ttacccaact taaatcnccc 780  
ttncagnaa atnccccctt tcagcnaanc tgggcgtaat nnncnaaana ngncccgcac 840  
cggntgcccc tttcccaaca atttngccca agnct 875

<210> 55  
<211> 465  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(465)  
<223> n = A,T,C or G

<400> 55  
ggggtcgtag tcggtgagga aatccaagcg cttatcatgc ttcaactttgc agacaatcag 60  
tacatcgatt gatgaggaaa aagaagaccc cttgaatggg tcgataatca ttactgtoca 120  
actcgattag agctccctcg ttgaggaagg tcttgccctc cagattgcca ttgaagccct 180  
ggaccatttc cttgaccgcc cgcgtggcat ggctattctc cagatccctc gtgcgcgtan 240  
tgctctccgc ctccaaactc tctgccttca ggtgactgga agtcttgcca tccgtcatgg 300  
tggccanaat attgcgctgc tcaatcagaa tgtgcgacag ttgatacatt tccgactcga 360  
gatgtgatat ctccctggnc gtctgtataa actccatata gttctttttg catgtttgct 420  
tgagcgttgc tgccgtcggt tcggtgtagg cctcgatttc ctttt 465

<210> 56  
<211> 238  
<212> DNA  
<213> *Drosophila melanogaster*

<220>

<221> misc\_feature  
<222> (1)...(238)  
<223> n = A,T,C or G

<400> 56  
tgctgectgc tccttttggg actcctgggc ttcctagctg ctcccggcgt cgcctcgcca 60  
tctcgccaca ctggaccagg aaacggatcg ggatctggag ctgggtccgg aaatccgttc 120  
aggtctccaa gtcacagca acgacctg tactacgacg ctccgattgg gaaaccatcn 180  
aagactatgt acgctgacg tanagaatga aacaanaaag atttgaaacn cctanact 238

<210> 57  
<211> 237  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(237)  
<223> n = A,T,C or G

<400> 57  
gctgectget ccttttggga ctcttgggct tectanctgc tcccggcgtc gcctcgccat 60  
ctcgccacac tggaccagga aacggatcgg gatctggagc tgggtccgga aatccgttca 120  
ngtctccaaag ctcacagcaa cnaccactgt actacgacgc tccgattggg aaaccatcga 180  
agactatgta cgcctgacgt aaagaatgaa acaataaaga tttgaaacgc ctaaact 237

<210> 58  
<211> 238  
<212> DNA  
<213> Drosophila melanogaster

<400> 58  
tgctgectgc tccttttggg actcctgggc ttcctagctg ctcccggcgt cgcctcgcca 60  
tctcgccaca ctggaccagg aaacggatcg ggatctggag ctgggtccgg aaatccgttc 120  
aggtctccaa gtcacagca atgacctg tactacgacg ctccgattgg gaaaccatcg 180  
aagactatgt acgctgacg taaagaatga aacaataaag atttgaaacg cctaaact 238

<210> 59  
<211> 253  
<212> DNA  
<213> Drosophila melanogaster

<400> 59  
attacgtccc tgccctttgt acacaccgcc cgtcgtact accgattgaa ttatttagtg 60  
aggtctccgg acgtgatcac tgtgacgcct tgcgtgttac gggtgtttcg caaaagttga 120  
ccgaacttga ttatttagag gaagtaaaag tcgtaacaag gtttccgtag gtgaacctgc 180  
ggaaggatca ttattgtata atatccttac cgtaataaaa catttgtaat tatacaaata 240  
aaaacaattt acc 253

<210> 60  
<211> 236  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(236)  
<223> n = A,T,C or G

<400> 60  
aacaggcaaa agcgatatca gtaataaact aaacgcacca attgtttaaa taaccaaagc 60  
gttaagaaaa aaatcaaaga caaagccacg gcaaaaggcg cagacaacaa gttgtttgct 120  
tttagttcgc gttctcctta ttttattttc cttccgttcg attttccacg cacgcgcgtc 180  
gcagaaacgt caaattgaaa acatcancag ttgaaagcca actgttgcat tctacc 236

<210> 61  
<211> 247  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(247)  
<223> n = A,T,C or G

<400> 61  
ttcaggcatc ttccttctaa ttctggctgt gggtttggca caaatgcgcg tgcagggtggc 60  
cgccaggggc caaaatggac attcgcaggg acagccgcca agaccgcca atggcaatgg 120  
aaacggcaac canncagagt ggacaaggac aaagcgggca gaacaactag aactgggata 180  
tttctggagg gggacaacac acctcctcgc cactttccca gttacttaaa taaacacttt 240  
cccagc 247

<210> 62  
<211> 767  
<212> DNA  
<213> Drosophila melanogaster

<220>  
<221> misc\_feature  
<222> (1)...(767)  
<223> n = A,T,C or G

<400> 62  
ctaattgcgc tccatccatt tgttccctgtc cggtgattcc cacatcttta atgggtggagt 60  
tatagaaatt attttgaata atcaaatacat ctccaattat cttcactatt tcaactcaaag 120  
acatgggttt tagcgtgctg gtcgtgttgc ttccaattgc gctgacggct ttcgaccatg 180  
atccgaattc acnaaggcg aattctgcag atatccatca cactggcggc cgctcganca 240  
tgcatactaaa agggcccat tcgcccata ntgagtccca ttacaattca ctggccgctg 300  
ttttacaacg tccttgaact gggaaaaccc tggcggttac cccaacttna tcgcctttgc 360  
agcacatccc cctttttccg ccagctnggn gttaatacca anaaggcccc ctawtawtga 420  
cactatagaa tactcaagct atgcatcaag ctwrratacc gagcawcgga tccamataag 480  
ataancagag accagcacia gtwtgtagcat rggabayata tacagcccat atacggagam 540  
ayatatacagg atatwtwtat atatatatat ataaacagaa acatacatat wtatacagta 600  
tatawgcama aaaaaataca ttatataaaa aaatatatac ragtatatam acacacacva 660  
gtatatatat atacgtacga rcacgtacgc atwarcacac acacrvcacg gacacacaat 720  
wtacrcgacg cacgcacatt tahacacaat tahtatacac mtaccaa 767

<210> 63  
<211> 353  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1)...(353)  
<223> n = A,T,C or G

<400> 63  
tawtgacact atagaatact caagctatgc atcaagctwr rataccgagc awcggatcca 60  
mataagataa ncagagacca gcacaagtwg tagcatrgga bayatatata gcccatatac 120  
ggagamayat atcaggatat wwtatatata atatatataa acagaaacat acatatwtat 180  
acagtatata wgcamaaaaa aatacattat ataaaaaaat atatacragt atamacac 240  
acacvagtat atatatatac gtacgarcac gtacgcatwa rcacacacac rvcacggaca 300  
cacaatwtac rcgacgcacg cacatttaha cacaattaht atacacmtac caa 353

<210> 64  
<211> 609  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 64  
aatttttagc aattttcttat ttgggtttttc ggtacttttct ctagctgctt ttacttgatc 60  
gcacatatat atatatatat atattctata catatacata ttcatatgaa tatatctttt 120  
atcatcttta agaggagatt ttcagtgctc gtgtgggtgt gtgtgtttgt gtatgcttgt 180  
atgtgtccgg ttgtcctata gccatttgaa ccactaagaa tttgtagccg ggggaagttgc 240  
tatcaaatag agttgctcaa caacggctct ggctcgggtt gaaggaattt ttggaggctg 300  
aggggagcca acgacacaac gcaagctgcc ccaaaaaaac gggctaagaa atcagggttg 360  
gctaataaaa tacaagctt gcaagggcaa gaagaagaag aagactgagc actttctttt 420  
cggtgcacg gcttacaacc agttcatagt gcgcctctct ccgcgcttct catcgatggt 480  
aggtaagccc ttgtttcaaa tgatgtgaat gggctctaatt aggagtttgt ctgtctgtgt 540  
ctgtattgtg tctgcacaag ccagagaaaag agaggctggg gagaatggga gaaagtgggt 600  
gatgggagg 609

<210> 65  
<211> 554  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 65  
taaacaaga aaaaacaaaa ttccttttga aaatgcaaca ttaacaaata gaaagaaaca 60  
aaacagaaca aacacgtaaa gaaagaggcc actacaaaac tgaaaagaaa atgtgaaaaa 120  
tacaaaattt cgttttagcca ttaagattgt taagaatcag agtgtagat gtagatgagc 180  
aagtgaattt tgtagggctt tgctaccagt tttacctgct taatgaataa gggtaaaaca 240  
ttcatatgat tggattggaa gaatatatcg ggaatgctaa aaattatttg agtataagtt 300  
aaatacaact gogatttata tgtttaagtt ttaaatgcta tattaacgat gtataacttt 360  
ggttcaatgt tttagtcata ggtttttaca tttaactcaa tgtggggaga gagcttttaa 420  
atagatcata cgaacctaca tattacattt atcggttatt ataattgttt tggccctctc 480  
atccaatata tacatatatt atggctcctag gttgtctttt ttaagttttc cattttgtta 540  
aagaaagttc gatt 554

<210> 66  
<211> 647  
<212> DNA  
<213> *Drosophila melanogaster*

<220>  
<221> misc\_feature  
<222> (1) ... (647)  
<223> n = A,T,C or G

<400> 66  
tggactgata tgcaaaaaag catttcacca cggcacctgc gcatataatg gtggatagcc 60  
tgtggaacgt ctttatctta tcgtgtaagg tggacacgac acgaacacta atcagagaat 120  
agagcagttc taactcacia tattgataaa caaagtaagg gccagccgag agatacacgc 180  
gcatttattg gcagcaaaaca gaagccaaaa ctacggacat gtccgaatcg ggaatcaaaa 240  
agttgagcca ggagcggact cgcgaatggt tggctagtca ggaggacgag gaactggagt 300  
ccattgcaga gtctctcgggt gtggacagct tggactacga ttataccgag gaagaggagg 360  
atgccgacca aaataccagt gaagaaatca gcactatgac actaggcact caaatcgcta 420  
ccaaaaagca ttgatcatc agcgacacca taagggacct tatgaactcg atcaacagca 480  
ttcagacttt gggcaacggt aatataagca actccacgaa cgtccatata ggcaatgtta 540  
ccaatattaa tggaaatata caaatcatag ccgatggcct tactcaaaac cgaagagatc 600  
ggcggcatgt ttcaccaccg agagataacg cttccaaaaa tccgaacn 647

<210> 67  
<211> 600  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 67  
gttttcaaac gctcagcggg gaaaatgtaa cggacgaacg cggctggcaa aactcacaga 60  
cgttacaaga gaaccagaat aaaaaaggac tccacaagaa acggcaactc gacaaaatct 120  
atacaaaagt gtctggctcg actgtgtgtg tgcttctgag tgaatgcttg tgtatgtgtg 180  
tataaattag tttggttgtg tgagttgtta gactcaaaga actaaaataa gactttcaga 240  
tctagcaaat atgtcccata gttccccgag acgcgtatcc actgctgtag ccacttaaca 300  
aacaatgccc aaagttaagg cgcacggaat ctctaataat cgaaaccaat aaaatgagcc 360  
ccgttgcttg cagcaccaac actaacatcg gtcacatcga gcagggttgca ggcaatcaaa 420  
ggacaaatat agctgggata agatcaatcc aaattggaac aaccacaatc acaacgatat 480  
tgaaccagcg atgagatgga gcgtccgttg ggatgacgaa ctcagaaact cagtaaggga 540  
gctgcaactg atactgaaac tgaaacagaa accacagcgg cactcggaat ttagaggcga 600

<210> 68  
<211> 598  
<212> DNA  
<213> *Drosophila melanogaster*

<400> 68  
ccgccgagcg cctgctgcag catcccttcg tccagtgcga gatgtccttg cgggtggcca 60  
aggagctgct gcagaagtac cagagtccca accgcagtt ctactactat ctcgatggcg 120  
atgaggagtc tgtggcagga gtgccacaac gcattgccag caaaatgacg tcacgcacca 180  
atggcgtgcc agcgcaaaat cacacactaa aaacaggcat gacgacgaac tccacgtgga 240  
atgagcgatc ttctagtccc gaaacgttac ccagtgcacat gagcctctta caatatattg 300

atgaggagct gaagctaaga gcgaccttgc cactgaacaa cgacacccaaa gatccactcg 360  
gcgccgagtg cagctgctcc tcccacaatg gaggagccgc cggaggagga ggaggaggag 420  
gagttggagt aggagcagcg ggagcagccg cgagcggcag cagcagcagc agcggaggcg 480  
caacagtcgg caccactcat catcagcacc aacagcacca ccaggatcac caccatccga 540  
atcatctgca tcagcatcag gcccatcaat tgccgcaaca gcagcagcag cagtcaca 598

<210> 69

<211> 420

<212> DNA

<213> *Drosophila melanogaster*

<400> 69

cagctggacg cgccgagcat catggacgcc ttcttgga cagagcgaca gagaatcgag 60  
cgcgagcagc aattggcggc ggcggagcag gatgcgacg gccgggcgga gcagaaccgg 120  
ctggaactgt accagatttt ggccgcctcc gagcctgatc cgcaacctta ccagaggaag 180  
ccggcggcac agccgaatgc tatggaccaa ctggaggcca ttgtggagca gcagcagcag 240  
cgcgagctga aggagcagca ggagcaggcc aaggcacogg tctacgtgcc tcccaggag 300  
gtgaacgagt cgagcgagct gtacttcccg gacaactttg ctcctttcaa gagagcaagg 360  
ggtcgctcca ggggaggatt ggccgaggag gtggaggact aacagccgaa gcgctccttc 420

<210> 70

<211> 547

<212> DNA

<213> *Drosophila melanogaster*

<400> 70

aagcgtgcca gaaatggcaa cgacagtctg ggttcggact cgaattccag cagtccgcgc 60  
cagcaaggca gccctccagt gatctgtgag gatgcggctg cttgcgcagc tctctccggc 120  
tacactgttg atcagctctc ggatctggcc agtcactgcc cagtgtctgag taacaacaat 180  
gctgtgggac ctaccggagt tagtggtggt ggcatgcgg ataccaacaa tgtgaacacc 240  
actccccgtc agtgcctctc tcgcttggtg ggcggtcagg aagtgatggg ccagtgccca 300  
gtgccgcaca atcaggcaat ggttcctgcc aaatgtccag tagcgcatgc agactctggg 360  
gattccttca gcgccaagag tggaaagtga ggggaatcgg ccaccactgc tcaactgtcca 420  
ctacagatgc ccgtgggaca ggacttcatg gggaatgtc cgtacgttaa caacgatgtg 480  
aaggtatcct ttgcccgaagc tggaaagtgt ccagtgtctg gcggtgtggc aggagcatca 540  
gcttcta 547

<210> 71

<211> 605 -

<212> DNA

<213> *Drosophila melanogaster*

<400> 71

atgaatcctc tggacaaaat acacgctcta gatgagatcg aaaaggagat aatcctgtgc 60  
atgcaaagtg caggacaagc cttgcaggag ttgggcaagg aaaagtcttc ccagaaaaat 120  
gcggagaccg agtcgcagca gtttctcaag agtctgtcca gcgtggaatc gaagctgtcc 180  
gagcagatca actacttgac ccagggtgtc acgggtcagc cacacgaggg ttccggctat 240  
gcatccgcca aagtgtctca aatggcttgg catcgcatc agcacgctag gtccagagtg 300  
cgtgaacttg aggaaactaa ggccaaacac tcacatgcag ctctgcagca gttgaagcgt 360  
cacaggaaca tgccgccgcc cagcaacagc agcagcaaca acaacagcag cagcagcaac 420  
aacaacagat gcaacaggcg gcacaacagc agcaacaaca aaccggagga ggaaatgccg 480  
gcagcggaga tcatccctgg gcggagactc ctcaatgtca accaactaat cttgcgctat 540

ctttaagggt aagggtttta aatTTTTtag agtgcattcc gaaaaggcac attttgtcca 600  
ccaat 605

<210> 72

<211> 630

<212> DNA

<213> *Drosophila melanogaster*

<400> 72

tagatccgac agcacagtca tgaaatcaga ccgagaagcc ggctcgtgccg attcgcgac 60  
ctggcgggtc cattgctcgt cctcgtgcaa tcggacattg tattcctcct gattctcatt 120  
tccatcgggt cgcgaccaga tgagcttcaa tccattgccca ataagcacia tatcgtggcc 180  
acgctcatag ttgccatag actccactat tagactgtac gacaggcgcc caccgtacga 240  
gaatagctgg ttgccagca cactccctc aagactccag tacttgggca gataggaggt 300  
gtgctgttag gtatacatat tcctagatat gtcgggaatt aagttctcgg tgcctggac 360  
agctccgctt tcgtctgtaa ttaatggtgc gttagaata aagtcaccg gtattagctg 420  
gcggtacaga gctgccgaac gacactggct ggccaatcca gagcagtagc actctttgca 480  
gccatcctga ttttgagcag acagtccata ggttccaggc cggcattggc cgcattgatc 540  
accaatcacg tttctcttgc acaggcattc gttgcgcgg caatcataga tgccctctat 600  
ttggcaatag gccgtgcatt ccaaagtgtg 630

<210> 73

<211> 638

<212> DNA

<213> *Drosophila melanogaster*

<400> 73

taaagaccgc cattgctgaa gtgatgcgcg atgatattgg ttatggaaag aatcggactg 60  
tcgaggtgcg aacagaggat gaagtaaccg ccgatattgg ggacattcg catgccgcg 120  
tccatgctgc acatgtggcg cagcagccc atgtcgccca tgccgctgct atggagttgc 180  
agcacagaag caaggaacca ccgcgcgcg agatcagtgt gtcacgtaag acgccaacc 240  
aatcagaggt ggtagacgcc agtggtcggc gtcagctgg cagtggttcc gtttcggttt 300  
ccgtttcggg cgccaatagc caccattcgc cgtatcatcc accggcgcg gcctatgcc 360  
ccagcaccta tgccctcccg tacagcgcgc tgaatgtgcc cggtgccgc ggtggattgc 420  
caccgcacca gccgttgag ctagccacc aggcggtggc accacctgg gcctttgcca 480  
aggccaagcg agcgcattgc ctgagtgaac tgggtgcagt cgggtgggg gtgtcattgg 540  
tggtggcgcg cggctctgga ggaattgcag gcggaccagg tggtgtctca gtcgggtgtc 600  
gtgtaccggg cggcgcgcgga ccaggaagcg gtggctgc 638

<210> 74

<211> 629

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1) ... (629)

<223> n = A,T,C or G

<400> 74

atcaatgctc tatgtacta tatcttgcct ttactataa ctgctgcag ctccgacgaa 60  
caggaatgct aggcctgcca atcagtgtcc tcggctatca tgatggtgct ccagtactcc 120  
aacaatccag cgcattcatt ccagctcctg gaggctctga tgactcttaa gcacaatgct 180



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gtcaaggaca tcctctgcgt tgtggcatac ggaaccgctg tttcccgcac ctcggetgcc 240
aagctgctct tctactactg gccagccttt aacgccaatc tgttcgatcg caaagtccta 300
ctctccaaac taaccaatga cctagtgcgc ttcacctgcc aacgggagca ctgtccgaac 360
tccgggaatg cggaggcagc aaaggtgtgc tacgaccaca gcattagcat cgcatacgcg 420
cccgattgtc caccgcccct ttacctgtgc atcgagtgcg ccaacgagat tcatcgggag 480
cacggaagcc tggagttcgg cgacattctg catcccatgc agcaggatc gatggtgtgc 540
gaaaacaaga actgtcgcgc caacgagaag tcogncttct tcatctgctt ttccacggag 600
tgtgccagct tcaatggcca ccatccgat                                629
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<210> 75

<211> 588

<212> DNA

<213> *Drosophila melanogaster*

<400> 75

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agagagacaa cgacacgaca cgacataagt ggggggtgggg gatagcgaac gagcccatcc 60
agcaacaaac ttcgcgaaag cgggcgacga cgcgcaaagc tcgactgaat tccaattcga 120
attcgggcac gctcagaagt accgttgagg tgcagcgacg ccggcgatgg gtaaacaata 180
ataggaatgg ctaaagacgt cgggagccct tgcgtcctc cagccccgt ttccgaccct 240
cccccgctg ccgctcccgc tccaaagaca cactcctaca aagagctcaa ctgtttacac 300
acacacacac acacacaggc acggacacgg aagtgtgtat ggggtgagacg taattaaagc 360
ttgaaaccga gtttacaaca acaacgagcc cgcagtcgc caccaccac ccacgcccgc 420
acacccccctg cgaagagccg aagtcgaagc aacagctaga agaagaggct taagagagag 480
agagagagag agagagagag agagcgggaa agagggaata ttggatactt cgcgagaga 540
gaaacccccca acaacgagcg cagtttataa ataaaccttg ttcttttc 588
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<210> 76

<211> 579

<212> DNA

<213> *Drosophila melanogaster*

<400> 76

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tttggctaac catttctttt tatataaaag taagttaaact aagaactaat cctaggcctg 60
caggaagtct cagagattgc cacatatatt gtcgatttcc gcacatcccg attgctccag 120
cgctgaaatg gcattggcga gggccacggg ttctttcagg gaatgggcct tcaaccatat 180
cctgcgcttg actccacag cgatctcgta gggcagttcc cgggtaagag cggcgagaa 240
agggcagttt tcccgagca gcatccttcc cagattcagg ctgcacttga agaagaatcc 300
atcgatagac atgcaatcca cagctacgtg tggatccga ttactctaac cttgtgcgaa 360
ggtcaatttt ccccaaaaaa tataggaaac gtaccaggga aaacaacaaa aaagggaag 420
cgcacccccca tactgaaaac cggcgagcac ctggaaacgc atacatataa aaggagagta 480
aatatacaaa ttggtagcac ttgcgcgc gtcttttaca cattcaagcc atgtcttgga 540
ccgcttcagt tttcttgagg acttacacca ctagcatga 579
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<210> 77

<211> 656

<212> DNA

<213> *Drosophila melanogaster*

<400> 77

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attatgttca gaaccttccg cccggagtca tcgaagtggg tggctctccac atcaagaacc 60
agaccagccc ttgcccacg tatatacaag aattcacgga gaagttcttc gacggcattg 120
tgtacatcaa tatgccctat attgagtata tgaatgacca gggattgaag gctatgtata 180
cgatgattca cggaaatccc aatgttgcc tcatctggaa tgtggagcaa ctagagcagt 240
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tgccggccaa gaaaccaa atctgttgacgc ttcattgtgaa tcaatcacta cagcaagaca 300
tcttggtctat gcagtagctc aaggggttcc tgaatcatgg agatagtttc agtcttcagg 360
aggcaattca ctatggagtg cccgtcgctc tgcttccct taaactagag gaatttaata 420
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<210> 78

<211> 549

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc\_feature

<222> (1)...(549)

<223> n = A,T,C or G

<400> 78

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ccgagttctt cgaggacttc atcgaggaga tgtccgtggt gcagtacctg aacgaggagc 480
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atctggtag

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<210> 79

<211> 486

<212> DNA

<213> *Drosophila melanogaster*

<400> 79

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<210> 80

<211> 590

<212> DNA

<213> *Drosophila melanogaster*

<400> 80

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